

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. to 16. (cancel)
17. (new) A method for communicating video data from a sender to a receiver over a communication channel, said video data being comprised of a series of image packets, said method comprising:
 - said receiver receiving said image packets from said sender, each image packet including an identifier number which uniquely identifies said each image packet, and an address which uniquely identifies the location of said each image packet in said video data to enable said sender to directly locate a specified one of said image packets using a corresponding address;
 - for each image packet received, said receiver examining said identifier number to identify the presence of a missing image packet indicated by a corresponding missing packet identifier number;
 - if said missing packet is identified, said receiver preparing a request to have said missing packet resent, said request identifying said missing packet identifier number and a corresponding missing packet address; and
 - said receiver sending said request to said sender wherein said missing packet address can be used to directly locate said missing packet and return said missing packet to said receiver.
18. (new) The method according to claim 17 wherein said image packets are sent in a data header message, said data header message comprising a video type definition and a time stamp for tracing said image packet to a known transmittal time.
19. (new) The method according to claim 17 comprising having said sender prepare said image packet and send said image packet to said receiver and having said sender receive said request, locate said missing packet and send said missing packet back to said receiver.

20. (new) The method according to claim 17 comprising having said receiver wait for a next image packet upon sending said request.
21. (new) The method according to claim 17 wherein if said missing packet is not identified, said receiver waits for a next image packet.
22. (new) The method according to claim 17 where said image packets and said request are transmitted via an underlying protocol.
23. (new) The method according to claim 22 wherein said underlying protocol is using Internet Protocol (IP).
24. (new) A system for communicating video data from a sender to a receiver over a communication channel, said video data being comprised of a series of image packets, said system comprising said receiver, said receiver configured to receive said image packets over said communication channel from said sender, each image packet including an identifier number which uniquely identifies said each image packet, and an address which uniquely identifies the location of said each image packet in said video data to enable said sender to directly locate a specified one of said image packets using a corresponding address; said receiver configured such that for each image packet received, said receiver examines said identifier number to identify the presence of a missing image packet indicated by a corresponding missing packet identifier number and, if said missing packet is identified, prepares a request to have said missing packet resent, said request identifying said missing packet identifier number and a corresponding missing packet address; and said receiver also configured for sending said request to said sender over said communication channel; wherein said missing packet address can be used by said sender to directly locate said missing packet and return said missing packet to said receiver.
25. (new) The system according to claim 24 wherein said image packets are sent in a data header message, said data header message comprising a video type definition and a time stamp for tracing said image packet to a known transmittal time.

26. (new) The system according to claim 24 comprising said sender, said sender preparing said image packet and sending said image packet to said receiver; said sender receiving said request, locating said missing packet and sending said missing packet back to said receiver.
27. (new) The system according to claim 24 wherein said receiver is configured to wait for a next image packet upon sending said request.
28. (new) The system according to claim 24 wherein said receiver is configured such that if said missing packet is not identified, said receiver waits for a next image packet.
29. (new) The system according to claim 24 where said image packets and said request are transmitted via an underlying protocol.
30. (new) The system according to claim 29 wherein said underlying protocol is using Internet Protocol (IP).
31. (new) A method for communicating video data from a sender to a receiver over a communication channel, said video data being comprised of a series of image packets, said method comprising:
- said sender preparing said image packets, each said image packet including an identifier number which uniquely identifies said each image packet, and an address which uniquely identifies the location of said each image packet in said video data to enable said sender to directly locate a specified one of said image packets using a corresponding address;
 - said sender transmitting said image packets to said receiver to enable said receiver to examine said identifier number to identify the presence of a missing image packet indicated by a corresponding missing packet identifier number and, if said missing packet is identified, said receiver can prepare a request to have said missing packet resent, said request identifying said missing packet identifier number and a corresponding missing packet address; and
 - said sender receiving said request and using said missing packet address to directly locate said missing packet and return said missing packet to said receiver.

32. (new) A method for communicating with and controlling a video source over a network using an underlying protocol, said method comprising:
- preparing one or more messages capable of being sent using said underlying protocol, each message having a message header;
 - for sending commands to said video source, utilizing a command header, said command header comprising one or more command codes to signify a specific action to control operation of said video source;
 - for sending data to said video source, utilizing a data header, said data header comprising unique identifying information for said data;
 - for providing a response to received commands, utilizing an answer header, said answer header comprising an echo of a command sent using a received command header and an acknowledgement identifier.
33. (new) The method according to claim 32 wherein for sending an interrupt to said remote device, utilizing an interrupt header.
34. (new) The method according to claim 32 wherein said data is a video sent as a series of image packets and said unique identifying information comprises a unique identifier and an address which locates each image packet in said video.
35. (new) The method according to claim 34 wherein if a missing packet is identified by a receiver of said image packets, said receiver prepares a request to have said missing packet resent, said request identifying a missing packet identifier number and a corresponding missing packet address; and said receiver sends said request to a sender of said image packets; wherein said missing packet address can be used to directly locate said missing packet and return said missing packet to said receiver.
36. (new) The method according to claim 32 wherein said command header specifies a request ID, a message length, a command address and includes command data.
37. (new) The method according to claim 32 wherein a data field defining said command code provides unique codes corresponding to a register read command, a register write command, a configuration read command, and a configuration write command.

38. (new) The method according to claim 32 wherein said command code comprises a data field that provides unique codes corresponding to a get device info action command, a trigger action command and a re-send packet action command.
39. (new) The method according to claim 32 wherein said data header has unique values for a regular message and a re-send message.